

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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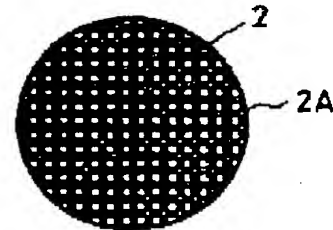
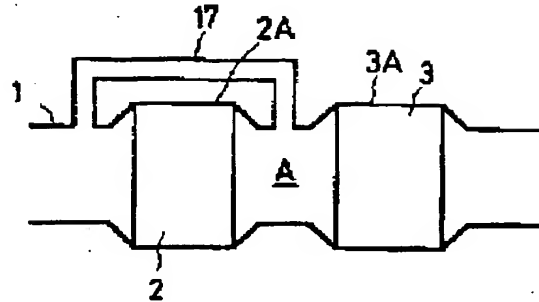
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TITLE : EXHAUST EMISSION CONTROL  
DEVICE OF ENGINE



ABSTRACT : PURPOSE: To improve the exhaust emission control performance of the three-way catalyst in the stoichiometric in an engine provided with the lean NOx catalyst and the three element catalyst.

CONSTITUTION: In an exhaust emission control device where the lean NOx catalyst 2 and the three-way catalyst 3 are independently arranged in independent containers 2A, 3A, a bypass tube 17 which bypasses the catalyst 2 and communicates the upstream part of the catalyst 2 of the container 2A with the downstream part thereof is provided outside the container 2A to store the lean NOx catalyst 2, and the gas passing through the lean NOx catalyst 2 is mixed with the gas which bypasses the lean NOx catalyst in a space A between the lean NOx catalyst 2 and the three-way catalyst 3. The exhaust emission control performance of the lean NOx catalyst 2 in the lean condition is not largely affected thereby, but approximately kept as it is, and the perturbation at the inlet of the three-way catalyst 3 attributable to the lambda control in the stoichiometric condition becomes difficult to be damped by the adsorption/desorption effect of the lean NOx catalyst 2, and can be increased compared with the conventional one, and the deterioration of the exhaust emission control performance of the three element catalyst 3 in the stoichiometric condition can be suppressed.

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